



This patient group direction (PGD) must only be used by registered health professionals who have been named and authorised by their organisation to practice under it. The most recent and in date final signed version of the PGD should be used.

Patient Group Direction (PGD)

For the administration or supply of

Ketamine 10mg/1ml IV /IO

By registered health care professionals for

Analgesia for severe pain

For Paramedic Services use only

PGD NUMBER 143

1. Change history

Version number	Change details	Date
1	Original PGD ratified	June 2021

2. Medicines practice guideline 2: *Patient group directions*

Refer to the relevant sections of NICE medicines practice guideline 2: *Patient group directions* as stated in the blank template notes. For further information about PGD signatories, see the NHS and Manx Care [PGD website FAQs](#)

3. PGD development

Refer to the [NICE PGD competency framework for people developing PGDs](#)

Job Title & organisation	Name	Signature	Date
Author of the PGD			
Member of the PGD working group			

4. PGD authorisation

Refer to the [NICE PGD competency framework for people authorising PGDs](#)

Job Title	Name	Signature	Date
Medical Director			
Chief Pharmacist/ Pharmaceutical Adviser			
Senior Paramedic			
Director of Nursing			
GP Adviser			
Senior Microbiologist (if PGD contains antimicrobials)			

5. PGD adoption by the provider

Refer to the [NICE PGD competency framework for people authorising PGDs](#)

Job title and organisation	Signature	Date	Applicable or not applicable to area

6. Training and competency of registered healthcare professionals, employed or contracted by the Manx Care, GP practice or Hospice

Refer to the [NICE PGD competency framework for health professionals using PGDs](#)

	Requirements of registered Healthcare professionals working under the PGD
Qualifications and professional registration	<ul style="list-style-type: none"> Registered healthcare professionals, working within or contracted by the Manx Care, GP practice or Hospice who are permitted staff groups outlined within the current PGD policy Procedural sedation training Advanced life support training For Paramedic Services use only
Initial training	<ul style="list-style-type: none"> Knowledge of current guidelines and the administration of the drug specified in this PGD/BNF and of the inclusion and exclusion criteria Training which enables the practitioner to make a clinical assessment to establish the need for the medication covered by this PGD Local training in the use of PGDs Successful completion of the Isle of Man Ambulance Service Sedation Training and competency assessment
Competency assessment	Staff will be assessed on their knowledge of drugs and clinical assessment as part the competency framework for registered health professionals using PGDs
Ongoing training and competency	The registered health care professionals should make sure they are aware of any changes to the recommendations for this medication; it is the responsibility of the registered health care professionals to keep up to date with continuing professional development. PGD updates will be held every two years

7. Clinical Conditions

Clinical condition or situation to which this PGD applies	Analgesia for severe pain
Inclusion criteria	<ul style="list-style-type: none"> • Analgesia for severe pain, particularly in relation to trauma and/or burns • 12 years and older
Exclusion criteria	<ul style="list-style-type: none"> • Children under twelve (12) years • Where other analgesia may be suitable • Known severe allergic reaction to ketamine • Known glaucoma or isolated eye injury • Pregnancy • Breast feeding
Cautions (including any relevant action to be taken)	<ul style="list-style-type: none"> • Adults and children aged twelve (12) years or over who are trapped and/or not about to be/able to be laid flat • Hypertension • Heart Disease • Porphyria • Psychotic disorders • Risk of laryngospasm • Thyroid disorders • Alcohol consumption and chronic alcohol dependency
Arrangements for referral for medical advice	Patient should be referred to a more experienced clinical practitioner for further assessment
Action to be taken if patient excluded	Patient should be referred to a more experienced clinical practitioner for further assessment
Action to be taken if patient declines treatment	<ul style="list-style-type: none"> • A verbal explanation should be given to the patient on: the need for the medication and any possible effects or potential risks which may occur as a result of refusing treatment • This information must be documented in the patients' health records • Any patient who declines care must have demonstrated capacity to do so • Where appropriate care should be escalated

8. Details of the medicine

Name, form and strength of medicine	Ketamine 10mg/ml
Legal category	Controlled drug (CD) (Schedule 2)
Indicate any <u>off-label use</u> (if relevant)	Severe pain
Route/method of administration	Intravenous (IV) or intraosseous (IO)

Dose and frequency¹	<p>Dosage:</p> <ul style="list-style-type: none"> • 0.1mg/kg up to a maximum of 10mg (1ml) per dose • Wait at least one minute between doses <p>Subsequent doses:</p> <ul style="list-style-type: none"> • 0.1mg/kg up to a maximum dose of 10mg (1ml) given slowly • Wait at least one minute between doses <p>A maximum of 6 doses (total 60mg) without seeking clinical advice</p>
Quantity to be administered and/or supplied	As per dose
Maximum or minimum treatment period	<ul style="list-style-type: none"> • A maximum of 6 doses (total 60mg) without seeking clinical advice • If patient condition indicates, and following discussion with senior clinician, maximum of 10 doses (total 100mg) can be given
Storage	Room temperature
Adverse effects	<ul style="list-style-type: none"> • Arrhythmias • Bradycardia – less common • Diplopia • Emergence phenomenon • Hypertension • Hyper salivation • Hypotension – less common • Laryngospasm • Nausea • Nystagmus • Predisposition to seizures, hallucinations and psychotic disorders • Rash • Respiratory depression (usually from rapid administration) • Tachycardia • Vomiting
Records to be kept	The administration of any medication given under a PGD must be recorded within the patient's medical records

9. Patient information

Verbal/Written information to be given to patient or carer	<ul style="list-style-type: none"> • Verbal information must be given to patients and or carers for all medication being administered under a PGD • Where medication is being supplied under a PGD, written patient information leaflet must also be supplied • A patient information leaflet is available on request
Follow-up advice to be given to patient or carer	If symptoms do not improve or worsen or you become unwell, seek medical advice immediately

¹ Agreed by the Isle of Man Ambulance Clinical Effectiveness Group

10. Appendix A

References
<ol style="list-style-type: none">1. British National Formulary (BNF) available online: https://bnf.nice.org.uk2. Nursing and Midwifery (2018) “The code” available online: https://www.nmc.org.uk3. Current Health Care Professions Council standards of practice4. General Pharmaceutical Council standards5. The General Optical Council6. Electronic medicines compendium available online: https://www.medicines.org.uk

11. Appendix B

Health professionals agreed to practice
<ul style="list-style-type: none">• Each registered healthcare professional will hold their own Competency framework which will be signed and agreed by their mentor• A mentor is defined within the Manx Care policy as any ward/area managers, sisters, senior nurses, GPs, pharmacists or senior paramedics who has completed the PGD training themselves